



On India's Growing Strengths...

India has become a global innovation powerhouse with over 100 unicorns. It is the 3rd largest startup ecosystem in the world with about a billion international internet subscribers. India's digital economy is booming. Artificial intelligence, Machine learning, Blockchain and Industry 4.0 are no longer buzzwords; they are all a reality. Digital India has connected hundreds of millions on platforms such as UPI, processed over 185 billion transactions during 2024-25. Our digital public infrastructure is admired globally and it serves as the backbone of our inclusive economic model. Many of you must have heard about it. With the click of a button, the amount of assistance is transferred to about 8 crore farmers instantaneously. This is the

On India's Climate Commitments...

India aims to install 500 GWe of non-fossil fuel capacity by 2030. We have launched the National Green Hydrogen mission. We are also co-founder of the International Solar Alliance and the Global Biofuel Alliance. Clean tech, green finance, electric vehicles, carbon trading and circular economy practices will all demand trained innovative minds where all of you (BARC) can play an important role.

Reform Measures in Nuclear Energy Sector...

Atomic energy sector can play a significant role in our clean energy initiatives and energy security. The Budget 2025-26 suggests a Nuclear Energy Mission for Viksit Bharat. Development of at least 100 GW of nuclear energy by 2047 is essential for our energy transition efforts. For achieving (this goal), both public and private sectors need to take major initiatives. Amendments to the Atomic Energy Act and the Civil Liabilities for Nuclear Damage Act will be taken up because there were some obstacles in the form of our legal provisions for private sector to participate in our nuclear energy sector. So those will be removed. It has been announced in the budget and the work is going on.

'High hopes from nuclear energy as a source of clean and sustainable power'

Dr. Pramod Kumar Mishra said in his speech during the Graduation Function of 68th Batch (OCES-2024) of BARC Training School

On Nuclear Technology Playing a Pivotal Role...

The nuclear research program will become very crucial and institutions such as BARC will play a much greater role in our strategic aspect. India's nuclear program is a matter of pride for all of us. It proved to the world that India's scientific minds can deliver on cutting edge science and technology. India had to chart its own distinct path in its nuclear program in the face of adverse external situation. Over a period of time, our program has gained respect in geopolitical and scientific communities across the world. India's nuclear agreements with several countries beginning with the agreement with the USA, the NSG waiver for our program and our participation in the ITER are some of the testimonies of the high regard that our program enjoys across the world. There are high hopes from nuclear energy as a source of clean and sustainable power. We need to capitalize on these opportunities.

On Making Nuclear Energy the Preferred Energy Option...

Nuclear energy projects are capital intensive, which affects their commercial viability if those projects are not completed on time. We can bring down project cost and tariff through access to low-cost credit, reducing operational cost and leveraging capabilities of the private sector. I am sure your (BARC) research will play an important part in reducing cost of nuclear energy so as to make it the preferred energy option. As it is well known, safety aspects of atomic energy require complete commitment as we expand nuclear energy through private sector participation and captive power plants. We also need to ensure that there is a high level of confidence in the minds of the people about safety standards of our nuclear projects.

There are high hopes from nuclear energy as a source of clean and sustainable power... The criticality of safety aspect will be very vital and we need to revisit our whole mechanisms and undertake further research on the subject... We also need to ensure that there is a high level of confidence in the minds of the people about safety standards of our nuclear projects.



A group photograph of meritorious officers who graduated from OCES-2024 program of BARC Training School.

Wishlist for a Successful Scientific Career

While extending his heartfelt good wishes to the bright and aspiring scientific officers (250 in total), who passed out of OCES-2024 program, Dr. P.K. Mishra shared an inspiring wish list for them - a vision meant to guide, motivate, and empower their journey ahead.

Embrace the spirit of lifelong learning

Embrace change as an opportunity for growth

Cultivate openness of mind, mutual respect and humility